

Overview

The Active VGA/Audio Balun Kit (500145) allows VGA and stereo or digital audio to be transmitted via cost-efficient unshielded copper twisted cable in a point-to-point configuration. The product also supports RS232, is DDC compliant and works in conjunction with MuxLab's IR-Emitter (500998) and IR Sensor (500999) to support IR source control. Tx and Rx also sold separately.

The product supports up to 1920 x 1200 resolution and features manual brightness, sharpness and skew adjustments. Applications include; Digital signage, residential, boardroom, classroom, medical imaging video systems.



Key Features

- Up to 600 ft (180m) via Cat5e/6 @ 1920 x 1200
- Supports analog stereo or digital audio
- Supports RS232 or IR control
- DDC1/DDC2 (Plug-and-Play) Compliant
- Brightness, sharpness and skew adjustments
- Local VGA/Audio monitor output
- Ground loop isolation

Specifications

Environment	VGA. VESA VP&D 1.0, VIP ver 2.0. DDC1 and DDC2 with Analog Stereo and/or Digital Audio, IR and RS232 control.	
Devices	PCs, laptops, CRT monitors, LCD monitors, plasma screens, DLP projectors.	
Transmission	Transparent to the user	
Bandwidth	Up to 220 MHz (1920 x 1200 resolution), 1080p	
Input Impedance	HD15; 75 ohms: 75 ohms; Stereo Audio: 2.2 Kohms	
Output Impedance	Cat 5e/6: 100 ohms	
Connectors: Transmitter	VGA Input (PC): VGA Output (Local Monitor): Stereo Audio Input and Output: Digital Audio Input: IR-Emitter Output: RS232: Link Output:	HD15-F HD15-F 2 x 3.5mm (stereo) jacks RCA-F 3.5mm (mono) jack DB9-F RJ45S
Connectors: Receiver	Link Input: VGA Output (Display): Stereo Audio Output: Digital Audio Output: IR-Sensor Input: RS232:	RJ45S HD15-F 3.5mm jack RCA-F 3.5mm (stereo) jack DB9-M
Max. Distance – VGA via Cat 5e/6 UTP	640 x 480 (VGA): 1,000 ft (305m) 800 x 600 (SVGA): 1,000 ft (305m) 1024 x 768 (XGA): 1,000 ft (305m) 1280 x 1024 (SXGA): 850 ft (260m)	1600 x 1200 (UXGA): 800 ft (245m) 1366 x 768 (WXGA): 850 ft (260m) 1680x1050 (WSXGA): 850 ft (260m) 1920 x 1200 (WUXGA): 600 ft (180m)
Max Distance – Audio	Analog Stereo Audio: 1,000 ft (305 m)	Digital Audio: 1,000 ft (305 m)
RJ45 Pin Configuration <i>Reverse Polarity Sensitive</i> <i>Use EIA/TIA 568A or 568B straight-through wiring</i>	Green (Y): Pin 4 (R) Blue (Pb): Pin 1 (R) Red (Pr): Pin 7 (R) IR-Emitter, RS-232: Pin 3 (R)	Pin 5 (T) Pin 2 (T) Pin 8 (T) Pin 6 (T)
Brightness Adjustment	Brightness control via rotary switch on the receiver. (Factory default setting: "None")	
Sharpness Adjustment	Sharpness control via potentiometer on the receiver (Factory default setting: Completely rotated counterclockwise)	
Skew Adjustment	Skew control via 3 potentiometers (R, G, B) on the receiver (Factory default setting: Completely rotated counterclockwise)	
LED Indicators	Tx Balun: Power: One (1) green LED; Sync: One (1) green LED Rx Balun: Power: One (1) green LED	
IR Interface <i>Use p/n 500998 and p/n 500999 or equivalent (see datasheets)</i>	IR Emitter (500998): IR Wavelength: 940 nm IR Sensor (500999): IR Wavelength: 940 nm, Carrier freq: 38 KHz, Receiving Distance: 50 ft (15m) Power requirement:: 12 VDC @ 2 mA	
Cable	Cat 5e/6 unshielded twisted pair (or better)	
Power Supplies	110-240V/12VDC/0.5A, 12VDC power jacks Removable AC blades included for North America, Continental Europe & UK	
Temperature	Operating: 0° C to 40° C Storage: -10° C to 70° C Humidity: Up to 95% non-condensing	
Enclosure	Black. ABS fire retardant plastic	
Dimensions	6" x 4.25" x 1.50" (15.3 cm x 10.8 cm x 3.8 cm)	
Weight	2 lbs (0.9 kg)	
Regulatory	FCC/CE, RoHS	
Warranty	Two (2) years	
Order Information	500145 Active VGA/Audio Balun Kit 500146 Active VGA/Audio Balun, TX, incl PSU 500147 Active VGA/Audio Balun, RX, incl PSU	

Typical Applications

